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Amendments to the Claims:

This listing of claims replace all prior versions and listings of claims in the subject application, and please amend the claims as follows:

Listing of Claims:

Claim 1. (currently amended) A process for the selective trimerization of olefinic compounds under trimerization conditions in the presence of a catalyst system, said process is effected by using a catalyst system comprising the steps of:

A) providing a catalyst system comprising:

A) a) a cyclopentadienyl titanium complex of formula

 $(Cp-B(R)_nAr)TiR^13$

wherein

Cp is a cyclopentadienyl type ligand, cyclopentadienyl type ligand being substituted,

B is a bridging group, based on a single atom selected from the groups 13 to 16 inclusive of the Periodic System,

Ar is a aromatic group, substituted aromatic group, and combinations thereof.

R is, independently, hydrogen, a hydrocarbon residue, hydrocarbon being substituted, hydrocarbon containing heteroatams, or groups R and B are joined together to form a ring,

n is an integer equal to the valency of B minus 2, and

R¹ is a mono-anionic group;, and

B) b) an activator;

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B) providing olefinic compounds, wherein said olefinic compounds are selected from a group consisting of C₂-C₂₀ olefines and mixtures of two or more of these olefins—; and

wherein said process is

C) trimerizing said olefinic compounds in the presence of said catalyst system. Effected at a pressure.

From 0. 2 to 14 MPC.

Claim 2. (currently amended) The process according to claim 1, wherein said process is effected at a temperature from 20-150°C at a pressure from 0.2 to 14 MPa preferably 1.5 to 3 MPa.

Claim 3. (original) The process according to claim 1, wherein the single atom of B is selected from the group consisting of B, C, N, O, Si, P and S.

Claim 4. (currently amended) The process according to claim 1 wherein B is carbon or silicon;

Ar is phenyl, optionally substituted or being part of a larger aromatic entity substituted phenyl, an aromatic entity, and combinations thereof;

R¹ is a halogen atom, mono-anionic hydrocarbon residue, mono-anionic hydrocarbon residue containing heteroatoms, and combinations thereof; and

n is 1 or 2, where n is 2, R is a mono-anionic hydrocarbon residue, mono-anionic hydrocarbon residue containing heteroatoms, and combinations thereof; and where n is 1, R is a di-anionic hydrocarbon residue, di-anionic hydrocarbon residue containing heteroatoms, and combination.

Claim 5. (original) The process according to claim 1, wherein Cp is a cyclopentadienyl type ligand being substituted, besides said B-(R)n group, with 1 to 8 groups of formula

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-YR2R3R4 in which Y is C or Si and R2, R3 and R4 are, independently, H, halogen, lower alkyl, aryl, lower-alkyl-aryl, aryl-lower alkyl residue, wherein said alkyl and aryl are independently substituted or not with one or more lower alkyl residues, said alkyl and aryl residues being independently provided or not with at least one heteroatom, selected from halogen, nitrogen, oxygen, sulfur and phosphor.

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Claim 6. (original) The process according to claim +, wherein said lower alkyl residues, being the same or different to each other, are linear or branched C_1 - C_5 alkyl residues.

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Claim 7. (original) The process according to claim +, wherein said aryl group in the realist aryl-aryl aryl-aryl aryl-aryl aryl-aryl aryl-aryl aryl-aryl aryl-aryl group.

Claim 8. (original) The process according to claim 4, wherein said halogen is fluorine or chlorine.

202-01-80 202-01-80 Claim 9. (original) The process according to claim 1, wherein para position Ar is a phenyl group, substituted or not at the meta or paraposition;

B is based on a carbon atom;

n is 1 or 2, where n is 2, R is, independently, methyl, or ethyl; and where n is 1, R is = CH_2 , Structure or forms when R is C_4H_8 or C_5H_{10} together with group B a diameteric cyclic group; Cp is C_5H_4 or $C_5H_3(SiMe_3)$, or $C_5H_3(CMe_2Ph)$; and

R¹ is chlorine, methyl, or benzyl.

Claim 10. (original) The process according to claim 1, wherein said titanium complex is supported on a carrier.

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Claim 11. (currently amended) The process according to claim 1, wherein said activator is methylalumoxane, a salt of a non-coordinating anion, or a Lewis acid generating a cationic transition metal species within a non-coordinating anion capable of abstracting an anion from said transition metal complex.

Claim 12. (original) The process according to claim 11 wherein the activator is methylalumoxane and the molar ratio of Ti:A1 is from 1:100 to 1:1000.

Claim 13. (original) The process according to claim 1 wherein said catalyst system further comprises a scavenger.

Claim 14. (original) The process according to claim 13, wherein said scavenger is selected (1-BU₂ AU₂) from the group consisting of i-Bu₃A1 and (i-Bu₂A1)₂.

Claims 15-27 (cancelled)

Claim 28. (new) The process according to claim 2, wherein said process is effected at a pressure from 1.5 to 3 mPa.

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